

Schneider 140EIA92100C Manual

Brand	Schneider
Product Series	Schneider
Product Type	AS interface master module

Description

The 140EIA92100C module from Schneider Electric is a master module used within the AS interface standards, particularly version V1. With a maximum cycle time of just 5 milliseconds, it efficiently handles various automation tasks.

Technical specifications for 140EIA92100C

Manufacturer Schneider Electric

Product Type AS interface master module

Product Line Modicon Quantum

Part Number 140EIA92100C

AS-i Version V1

Addressing Standard

Maximum Cycle Time 5 ms

Discrete Inputs 124

Discrete Outputs 124

Server Devices 31

Transmission Rate 167 kbit/s

Reverse Polarity Protection Internal

Current Consumption ≤ 100 mA

Marking CE

Protection Class IP20

Ambient Temperature 0 to 60 °C

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Description

The Schneider Electric 140EIA92100C is an AS interface master module utilized specifically within the Modicon Quantum series. This powerful device is aligned with AS-i version V1 and supports standardized addressing. It is capable of processing discrete inputs and outputs, with a total of 124 channels available for each function.

Efficiency is a key feature, as the module boasts a rapid maximum cycle time of 5 milliseconds, enabling it to effectively manage data exchanges in real-time applications. The 140EIA92100C can communicate with up to 31 server devices, enhancing its versatility within complex setups. Transmission occurs at a rate of 167 kbit/s, ensuring a swift and efficient operation.

Safety features include internal reverse polarity protection, providing an extra layer of security for the module's operation. This unit has a specified current consumption of no more than 100 mA, ensuring it remains energy-efficient while running. It carries the CE marking, indicating compliance with relevant European directives.

At a weight of 0.45 kg, the module is relatively light and manageable. The design integrates protection class IP20, making it suitable for use in environments where dust exposure is limited. Operating conditions are optimal within a temperature range from 0 to 60 °C, catering to a wide array of industrial applications.

Range of product

Modicon Quantum automation platform

Product or component type

AS-Interface master module

Complementary

Range compatibility

AS-Interface cabling system

AS-i version

V1

Actuator sensor interface profile [AS-i]

M2

Addressing

Standard

Maximum cycle time

5 ms

Bus length

0...100 m without repeater

Discrete input number

124

Discrete output number

124

Number of server device(s)

31

Number of module per PLC

2 per Quantum PLC distributed drop

4 per Quantum PLC local drop

4 per Quantum PLC remote drop

Supply

Via AS-Interface line

[Us] rated supply voltage

30 V DC

AS-i cabling system cycle time

$156 \times (n + 1) \mu\text{s}$ with 31 slave(s)

$156 \times (n + 2) \mu\text{s}$

Transmission rate

167 kbit/s

Reverse polarity protection

Internal

Local signalling

32 LEDs for slave addresses and state of slave I/O bits

Electrical connection

1 male connector SUB-D 3 pins for AS-Interface link

Current consumption

$\leq 100 \text{ mA}$

Typical current consumption

60 mA 30 V DC

Marking

CE

Net weight

0.45 kg

Environment

IP degree of protection

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IP20

Ambient air temperature for operation

0...60 °C

Product certifications

UL

FM

C-Tick

CSA

GOST

Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1

1

Package 1 Height

5.0 cm

Package 1 Width

16.5 cm

Package 1 Length

31.5 cm

Package 1 Weight

485.0 g

Unit Type of Package 2

S02

Number of Units in Package 2

2

Package 2 Height

15.0 cm

Package 2 Width

30.0 cm

Package 2 Length

40.0 cm

Package 2 Weight

1.396 kg

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